

Material Safety Data Sheet



Revision Number: 003.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 272 Threadlocker High Strength
Product type: Anaerobic Adhesive

IDH number: 88442
Item number: 27240
Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Red
Odor: Mild

HMIS:

HEALTH: *2
FLAMMABILITY: 1
PHYSICAL HAZARD: 1
Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Lungs, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation with discomfort or rash.
Eye contact: Contact with eyes will cause irritation.
Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|---|-------------|----------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | 24448-20-2 | 60 - 100 |
| Maleimide resin | 3006-93-7 | 10 - 30 |
| Hydroxyalkyl methacrylate | 27813-02-1 | 1 - 5 |
| Cumene hydroperoxide | 80-15-9 | 1 - 5 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5 |
| 1-Acetyl-2-phenylhydrazine | 114-83-0 | 0.1 - 1 |

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms develop and persist, get medical attention.

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| Skin contact: | Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Remove contaminated clothing and footwear. |
| Eye contact: | Get medical attention. Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. |
| Ingestion: | Get medical attention. Keep individual calm. Do not induce vomiting. |

5. FIRE FIGHTING MEASURES

| | |
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| Flash point: | > 93.3 °C (> 199.94 °F) Tagliabue closed cup |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| Extinguishing media: | If product is involved in fire extinguish with dry powder, foam or carbon dioxide. |
| Special firefighting procedures: | Wear self contained breathing apparatus. |
| Unusual fire or explosion hazards: | None |
| Hazardous combustion products: | Oxides of nitrogen. Oxides of carbon. Thermal decomposition can lead to release of irritating gases and vapors. |

6. ACCIDENTAL RELEASE MEASURES

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| Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel. | |
| Environmental precautions: | Ventilate area. Do not allow product to enter sewer or waterways. |
| Clean-up methods: | Scrape up spilled material and place in a closed container for disposal. |

7. HANDLING AND STORAGE

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| Handling: | Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. |
| Storage: | For safe storage, store at or below 38 °C (100.4 °F) |

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|--|-------------------------------|----------------------------------|-------------------------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None | None | None | None |
| Maleimide resin | None | None | None | None |
| Hydroxyalkyl methacrylate | None | None | None | 1 ppm TWA 3 ppm STEL |
| Cumene hydroperoxide | None | None | 1 ppm (6 mg/m3) TWA (SKIN) | None |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 0.8 mg/m3 TWA | None | None |
| 1-Acetyl-2-phenylhydrazine | None | None | None | None |

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| Engineering controls: | No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits. |
| Respiratory protection: | Use NIOSH approved respirator if there is potential to exceed exposure limit(s). |
| Eye/face protection: | Safety goggles or safety glasses with side shields. |
| Skin protection: | Butyl rubber gloves. Use impermeable gloves and protective clothing as necessary to prevent skin contact. Natural rubber gloves. Neoprene gloves. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state: | Liquid |
| Color: | Red |
| Odor: | Mild |
| Odor threshold: | Not available |
| pH: | Not applicable |
| Vapor pressure: | < 5 mm hg (80 °F (26.7 °C)) |
| Boiling point/range: | > 300 °F (> 148.9 °C) |
| Melting point/ range: | Not available |
| Specific gravity: | 1.11 |
| Vapor density: | Not available |
| Flash point: | > 93.3 °C (> 199.94 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| Autoignition temperature: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 8.1 %; 89.9 g/l EPA Method 24 |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under recommended storage conditions. |
| Hazardous reactions: | Hazardous polymerization may occur in the presence of excess peroxides and metals contamination. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Irritating organic vapours. |
| Incompatible materials: | Reducing agents. Strong alkalis. Strong acids and oxidizing agents. Other polymerization initiators. |
| Conditions to avoid: | See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). High temperatures. |

11. TOXICOLOGICAL INFORMATION

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| Acute oral product toxicity: | LD50 (rat) > 10,000 mg/kg |
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Acute dermal product toxicity:

LD50 (rabbit) > 1,500 mg/kg

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|---|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | No | No | No |
| Maleimide resin | No | No | No |
| Hydroxyalkyl methacrylate | No | No | No |
| Cumene hydroperoxide | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| 1-Acetyl-2-phenylhydrazine | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | Irritant, Allergen |
| Maleimide resin | No Target Organs |
| Hydroxyalkyl methacrylate | Irritant, Allergen |
| Cumene hydroperoxide | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Silica, amorphous, fumed, crystal-free | Nuisance dust |
| 1-Acetyl-2-phenylhydrazine | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |

12. ECOLOGICAL INFORMATION

Ecological information:

Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

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| TSCA 12(b) Export Notification: | None above reporting de minimus |
| CERCLA/SARA Section 302 EHS: | None above reporting de minimus |
| CERCLA/SARA Section 311/312: | Immediate Health, Delayed Health |
| CERCLA/SARA 313: | This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Cumene hydroperoxide (CAS# 80-15-9). |
| California Proposition 65: | This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |

Canada Regulatory Information

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| CEPA DSL/NDL Status: | All components are listed on or are exempt from listing on the Canadian Domestic Substances List. |
| WHMIS hazard class: | D.2.B |

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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